The Art of Teaching Computers: The SIMSSA Optical Music Recognition Workflow System

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12:45 – 14:00
Room 205, Runme Shaw Building, HKU
(Chair: Dr Xiao Hu)

Abstract:
In many machine learning systems, it would be effective to create a pedagogical environment where both the machines and the humans can incrementally learn to solve problems through interaction and adaptation. We are designing an optical music recognition workflow system within the SIMSSA (Single Interface for Music Score Searching and Analysis) project, where human operators can intervene to correct and teach the system at certain stages in the optical music recognition process so that both parties can learn from the errors and, consequently, the overall performance is increased progressively as more music scores are processed.

About the speaker:
Ichiro Fujinaga is an Associate Professor in Music Technology Area at the Schulich School of Music at McGill University. He has Bachelor's degrees in Music/Percussion and Mathematics from University of Alberta, and a Master's degree in Music Theory and a Ph.D. in Music Technology from McGill University. From 1993 to 2002, he was a faculty member of the Computer Music Department at the Peabody Conservatory of Music of the Johns Hopkins University. Returning to McGill in 2002, he became the Acting Director of the Center for Interdisciplinary Research in Music Media and Technology (CIRMMT) (2003–2004). He was appointed as the Chair of the Music Technology Area in the Department of Music Research four times as well as the Associate Dean (Research), Schulich School of Music (2016–2017). As an expert in optical music recognition and music information retrieval, he has published over 180 peer-reviewed papers in journals and conference proceedings and has received over $6 million in research funding as the principal investigator from various funding agencies.

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